(54) Title: FAILOVER AND LOAD BALANCING
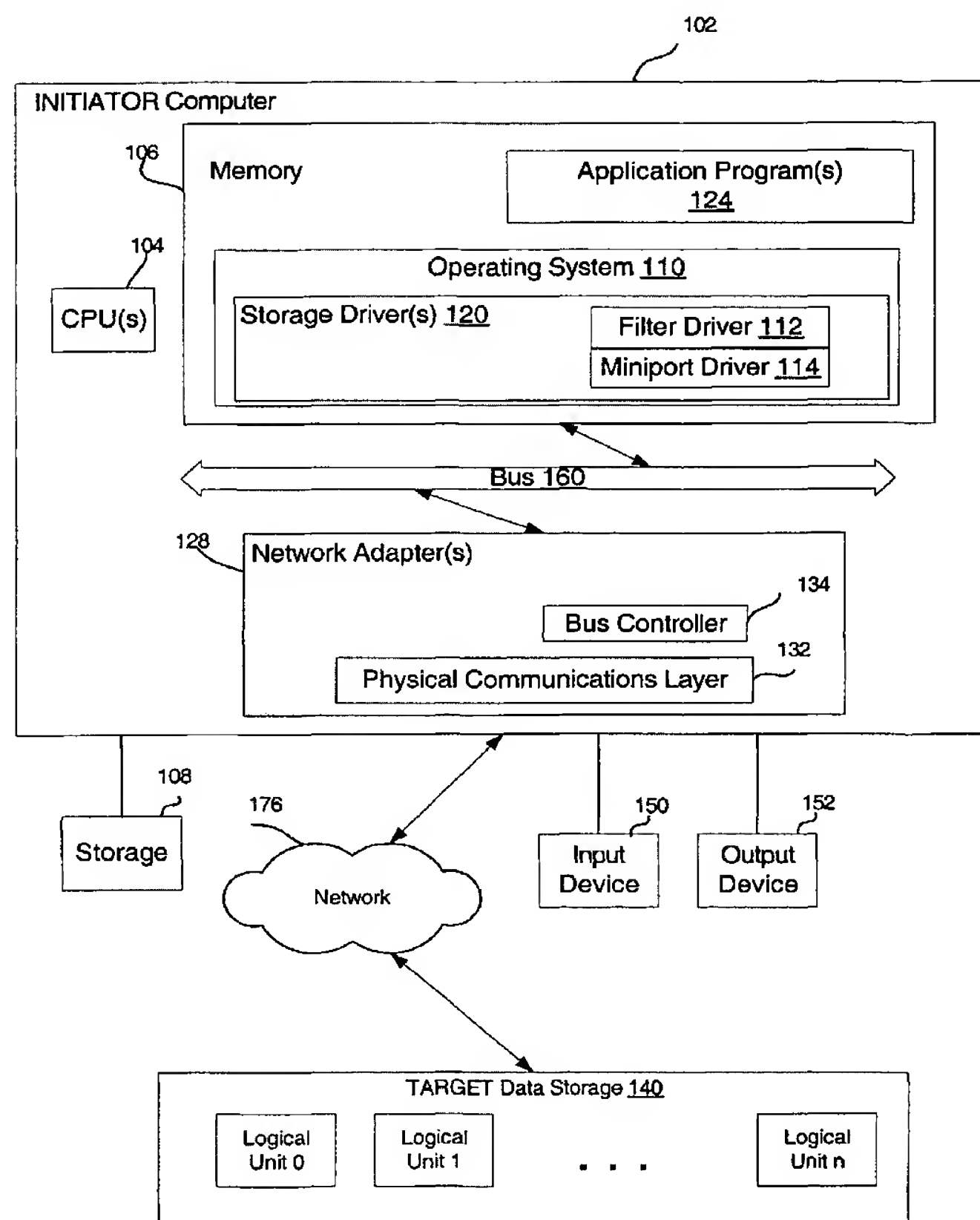
(57) Abstract: The invention relates techniques for a failover and for balancing of static and dynamic loads. A filter drive receives a path fail notification, that at least one of a first network adapter and the data path through the first network adapter have failed, and reroutes packets, which are directed to the first network adapter, to a second network adapter. A miniport driver determines, that at least one network adapter and data path through the network adapter have failed, and notifies the filter driver, that at least one of the network adapter and data path through the network adapter have failed. The filter driver determines a data quota for each of multiple data paths, determines a maximum number of commands for the given target logic unit and selects a data path on which to send a packet based on the data quota and the maximum number of commands. The filter driver determines a data transfer speed for each of multiple data paths, updates a load balancing share for each of the multiple data paths based on the data transfer speed of each of the multiple data paths and selects a data path, on which to send a packet, based on the load balancing share of each of the multiple data paths.

GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
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